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Established Maximum Residue Limit

EMRL2008-01

Transitioning the Legal Establishment of Maximum Residue Limits (MRLs) for Pesticides from the *Food and Drugs Act* to the *Pest Control Products Act*: Establishment of MRLs Previously Published in the *Canada Gazette*, Part I

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Before registering a pesticide for food use in Canada, Health Canada's Pest Management Regulatory Agency (PMRA) must determine the quantity of residues that are likely to remain in or on the food when the pesticide is used according to label directions and that such residues will not pose an unacceptable health risk. This quantity is then legally established as a maximum residue limit (MRL). An MRL applies to the identified raw agricultural food commodity as well as to any processed food product that contains it, except where separate MRLs are specified for the raw agricultural commodity and a processed product made from it.

Historically, MRLs were established by regulation under the *Food and Drugs Act* via publication in the *Canada Gazette*, Part II, following consultation in the *Canada Gazette*, Part I. Amendments to the *Food and Drugs Act* via Bill C-28, which came into force on 16 June 2008, now allow pesticide MRLs to be established legally under the authority of the *Pest Control Products Act*, without having to be adopted by regulation under the *Food and Drugs Act*.

The MRLs documented herein, which were previously consulted upon in the *Canada Gazette*, Part I, but never established by publication in the *Canada Gazette*, Part II, are legally in effect as of the publication date of this document. All chemicals include a hyperlink to the schedule in the *Canada Gazette*, Part I, under which their consultation was conducted. No comments were received regarding the MRLs listed in this document as a result of these consultations.

A complete list of all MRLs established in Canada can be found on the PMRA's MRL webpage.

Part 1: Additional MRLs for Chemicals With Currently Established MRLs on Other Food Commodities

1.1 Fenhexamid (Schedule 1396)

Published in the *Canada Gazette*, Part I, on 26 March 2005
(<http://canadagazette.gc.ca/partI/2005/20050326/html/regle6-e.html>).

Common Chemical Name	Chemical Name of Substance	MRL (ppm)	Food Commodity
Fenhexamid	<i>N</i> -(2,3-dichloro-4-hydroxyphenyl)-1-methylcyclohexane carboxamide	23	Head lettuce, leaf lettuce
		4.0	Blueberries, currants, elderberries, gooseberries, huckleberries
		1.0	Tomatoes

1.2 Imazethapyr (Schedule 1454)

Published in the *Canada Gazette*, Part I, on 13 May 2006
(<http://canadagazette.gc.ca/partI/2006/20060513/html/regle1-e.html>).

Common Chemical Name	Chemical Name of Substance	MRL (ppm)	Food Commodity
Imazethapyr	2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1 <i>H</i> -imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid, expressed as ammonium salt	0.1	Peas

1.3 Lambda-cyhalothrin (Schedule 1443)

Published in the *Canada Gazette*, Part I, on 9 April 2005

(<http://canadagazette.gc.ca/part1/2005/20050409/html/regle6-e.html>).

Common Chemical Name	Chemical Name of Substance	MRL (ppm)	Food Commodity
Lambda-cyhalothrin ¹	(S)- α -cyano-3-phenoxybenzyl (Z)-(1R,3R)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate	1.0	Fat of cattle, goats, hogs, horses and sheep
	and (R)- α -cyano-3-phenoxybenzyl (Z)-(1S,3S)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate, including the epimer, in a 1:1 mixture, (R)- α -cyano-3-phenoxybenzyl (Z)-(1R,3R)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate and (S)- α -cyano-3-phenoxybenzyl (Z)-(1S,3S)-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate ¹	0.2	Meat byproducts of cattle, goats, hogs, horses and sheep

¹ The common name for the chemical was listed in the PMRA's established MRLs as "cyhalothrin-lambda" but has been revised to "lambda-cyhalothrin" in order to comply with international nomenclature conventions. In addition, the chemical name identified as "[1 α (S*),3 α (Z)]($\pm$)-cyano(3-phenoxyphenyl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropane carboxylate" has been revised as has the residue definition, which now includes lambda-cyhalothrin's epimer, in accordance with the above. The revised names and residue definition now also apply to all existing MRLs established for lambda-cyhalothrin.

1.4 S-metolachlor (Schedule 1435)

Published in the *Canada Gazette*, Part I, on 26 March 2005

(<http://canadagazette.gc.ca/partI/2005/20050326/html/regle8-e.html>).

Common Chemical Name	Chemical Name of Substance	MRL (ppm)	Food Commodity
S-metolachlor	2-chloro- <i>N</i> -(2-ethyl-6-methylphenyl)- <i>N</i> -[(1 <i>S</i>)-2-methoxy-1-methylethyl]acetamide and 2-chloro- <i>N</i> -(2-ethyl-6-methylphenyl)- <i>N</i> -[(1 <i>R</i>)-2-methoxy-1-methylethyl]acetamide, including the metabolites 2-[(2-ethyl-6-methylphenyl)amino]-1-propanol and 4-(2-ethyl-6-methylphenyl)-2-hydroxy-5-methyl-3-morpholinone	0.3	Sugar beet roots ¹

¹ Existing MRL for sugar beets amended from 0.1 ppm to 0.3 ppm due to this action.

Part 2: MRLs for Chemicals With No Currently Established MRLs on Any Food Commodity

2.1 Acetamiprid (Schedule 1334)

Published in the *Canada Gazette*, Part I, on 9 July 2005

(<http://canadagazette.gc.ca/partI/2005/20050709/html/regle4-c.html>).

Common Chemical Name	Chemical Name of Substance	MRL (ppm)	Food Commodity
Acetamiprid	<i>(E)</i> - <i>N</i> -[(6-chloro-3-pyridinyl)methyl]- <i>N</i> -cyano- <i>N</i> -methylethanimidamide	3.0	Amaranth, arugula, cardoon, celery, celtuce, Chinese celery, corn salad, dandelion leaves, dock, edible leaved chrysanthemum, endives, fresh chervil leaves, fresh Florence fennel leaves and stalk, fresh parsley leaves, garden cress, garden purslane, garland chrysanthemum, head lettuce, leaf lettuce, New Zealand spinach, orach leaves, radicchio, rhubarb, spinach, Swiss chard, upland cress, vine spinach, winter purslane
		1.2	Bok choy Chinese cabbages, broccoli, broccoli raab, Brussels sprouts, cabbages, cauliflower, Chinese broccoli, Chinese mustard cabbages, collards, dried citrus fruit pulp, kale, kohlrabi, mustard greens, mustard spinach, Napa Chinese cabbages, rape greens
		1.0	Apples, crabapples, loquats, mayhaws, oriental pears, pears, quinces
		0.6	Undelinted cotton seeds

Common Chemical Name	Chemical Name of Substance	MRL (ppm)	Food Commodity
		0.5	Calamondins, ¹ citrus citrons, ¹ citrus hybrids, ¹ grapefruits, ¹ kumquats, ¹ lemons, ¹ limes, ¹ oranges, ¹ pummelos, ¹ satsuma mandarins, ¹ tangerines ¹
		0.4	Tomato paste
		0.2	Bell peppers, ² eggplants, grapes, groundcherries, non-bell peppers, ² pepinos, pepper hybrids, ² tomatillos, tomatoes
		0.01	Mustard seed, potatoes, rapeseed (canola)
	(E)-N-[(6-chloro-3-pyridinyl)methyl]-N'-cyano-N'-methylethanimidamide, including the metabolite (E)-N-[(6-chloro-3-pyridinyl)methyl]-N'-cyanoethanimidamide	0.3	Meat byproducts of cattle, goats, hogs, horses and sheep
		0.1	Fat and meat of cattle, goats, hogs, horses and sheep; milk
		0.05	Liver of poultry
		0.01	Eggs; fat and meat of poultry

¹ Published in the *Canada Gazette*, Part I consultation as "citrus fruits." The listing above was expanded to reflect all commodities found within the citrus fruits crop group.

² Published in the *Canada Gazette*, Part I consultation as "peppers." The listing above was expanded to include peppers as "bell peppers," "non-bell peppers" and "pepper hybrids" in accordance with fruiting vegetable crop group terminology.

2.2 Acibenzolar-S-methyl (Schedule 1438)

Published in the *Canada Gazette*, Part I, on 5 November 2005
(<http://canadagazette.gc.ca/partI/2005/20051105/html/regle3-e.html>).

Common Chemical Name	Chemical Name of Substance	MRL (ppm)	Food Commodity
Acibenzolar-S-methyl	1,2,3-benzothiadiazole-7-carbothioic acid S-methyl ester, including the metabolite 1,2,3-benzothiadiazole-7-carboxylic acid	3.0	Tomato paste
		1.0	Bell peppers, ¹ Bok choy Chinese cabbages, broccoli, broccoli raab, Brussels sprouts, cabbages, cauliflower, Chinese broccoli, Chinese mustard cabbages, collards, eggplants, groundcherries, kale, kohlrabi, mustard greens, mustard spinach, Napa Chinese cabbages, New Zealand spinach, non-bell peppers, ¹ pepinos, pepper hybrids, ¹ rape greens, spinach, tomatillos, tomatoes, vine spinach
		0.25	Amaranth, argula, cardoon, celery, celtuce, Chinese celery, corn salad, dandelion leaves, dock, edible leaved chrysanthemum, endives, fresh chervil leaves, fresh Florence fennel leaves and stalk, fresh parsley leaves, garden cress, garden purslane, garland chrysanthemum, head lettuce, leaf lettuce, orach leaves, radicchio, rhubarb, Swiss chard, upland cress, winter purslane
		0.1	Bananas

¹ Published in the *Canada Gazette*, Part I consultation as "peppers." The listing above was expanded to include peppers as "bell peppers," "non-bell peppers" and "pepper hybrids" in accordance with Fruiting Vegetable Crop Group 8 terminology.

2.3 Cyazofamid (Schedule 1473)

Published in the *Canada Gazette*, Part I, on 13 May 2006

(<http://canadagazette.gc.ca/partI/2006/20060513/html/regle2-e.html>).

Common Chemical Name	Chemical Name of Substance	MRL (ppm)	Food Commodity
Cyazofamid	4-chloro-2-cyano- <i>N,N</i> -dimethyl-5-(4-methylphenyl)-1 <i>H</i> -imidazole-1-sulfonamide,	0.2	Tomatoes
	including the metabolite 4-chloro-5-(4-methylphenyl)-1 <i>H</i> -imidazole-2-carbonitrile	0.02	Potatoes

2.4 Tepraloxym (Schedule 1423)

Published in the *Canada Gazette*, Part I, on 26 March 2005

(<http://canadagazette.gc.ca/partI/2005/20050326/html/regle7-e.html>).

Common Chemical Name	Chemical Name of Substance	MRL (ppm)	Food Commodity
Tepraloxym	(<i>EZ</i>)-(<i>RS</i>)-2-{1-[(2 <i>E</i>)-3-chloroallyloxyimino]propyl}-3-hydroxy-5-perhydropyran-4-ylcyclohex-2-en-1-one, including metabolites convertible to 3-perhydropyran-4-ylglutaric acid and 3-hydroxy-3-perhydropyran-4-ylglutaric acid, as parent equivalent	0.1	Dry peas, flax, lentils
	(<i>EZ</i>)-(<i>RS</i>)-2-{1-[(2 <i>E</i>)-3-chloroallyloxyimino]propyl}-3-hydroxy-5-perhydropyran-4-ylcyclohex-2-en-1-one, including metabolites convertible to dimethyl 3-(perhydropyran-4-yl)glutarate, dimethyl 3-hydroxy-3-(perhydropyran-4-yl)glutarate and dimethyl 3-(pentan-5-ol-3-yl)glutarate, as parent equivalent	0.15	Eggs; meat and meat byproducts of cattle, hogs, horses, poultry and sheep
		0.03	Milk

2.5 Topramezone (Schedule 1480)

Published in the *Canada Gazette*, Part I, on 13 May 2006

(<http://canadagazette.gc.ca/partI/2006/20060513/html/regle3-e.html>).

Common Chemical Name	Chemical Name of Substance	MRL (ppm)	Food Commodity
Topramezone	[3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl](5-hydroxy-1-methyl-1 <i>H</i> -pyrazol-4-yl)methanone	0.15	Liver of cattle, goats, horses and sheep
		0.05	Fat and meat byproducts (except liver) of cattle, goats, horses and sheep; fat and meat byproducts of hogs
		0.01	Field corn; meat of cattle, goats, hogs, horses and sheep; milk

